

METHOD FOR AMPLIFYING HEMATOPOIETIC STEM CELL**Publication number:** JP2004222502 (A)**Publication date:** 2004-08-12**Inventor(s):** SAKANO SEIJI; TAKAHASHI TSUNEO**Applicant(s):** ASAHI CHEMICAL CORP; ASAHI MEDICAL CO**Classification:****- international:** **C12N5/06; A61K35/14; A61P7/00; C12N5/06; A61K35/14; A61P7/00;** (IPC1-7): C12N5/06; A61K35/14; A61P7/00**- European:****Application number:** JP20030010318 20030117**Priority number(s):** JP20030010318 20030117Abstract of **JP 2004222502 (A)**

PROBLEM TO BE SOLVED: To provide a method for simply and safely amplifying a hematopoietic stem cell or a precursor cell in a large amount according to in vitro culture by using a stromal cell obtained from a placenta or an umbilical cord. ; **SOLUTION:** The method for amplifying the hematopoietic stem cell is to culture a human hematopoietic stem cell or the precursor cell in the coexistence of the stromal cell derived from a human placental tissue or an umbilical cord tissue and thereby amplify the human placental hematopoietic stem cell or precursor cell. The culture is preferably carried out in the presence of a cytokine such as an Flt-3 ligand, thrombopoietin (TPO) and a stem cell factor (SCF). The hematopoietic stem cell having the same characteristics as those of the hematopoietic stem cell used as a source and the multipotency can be obtained in the large amount by co-culturing the hematopoietic stem cell for about 10 days. ; **COPYRIGHT:** (C)2004,JPO&NCIPI

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